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WHAT IS CLAIMED IS:

1		1.	A method for proactively managing a fault in a video and data network
2	comprising:		
3		collecti	ing network correlation data for the fault;

confecting network correlation data for the fault;

automatically performing a physical connectivity test of the video and data

network;

collecting physical connectivity data from the physical connectivity test; automatically performing a virtual connectivity test of the video and data

network;

collecting virtual connectivity data from the virtual connectivity test;
automatically correlating the network correlation data, physical connectivity
data, and virtual connectivity data based on the fault; and

providing a defined resolution procedure for resolving the fault using the correlated network correlation data, physical connectivity data, and virtual connectivity data.

- $2. \qquad \mbox{The method of claim 1, wherein the video and data network comprises} \ a\ \mbox{Digital Subscriber Line (xDSL) network}.$
- The method of claim 1, wherein the video and data network comprises a Very high bit rate DSL (VDSL) network.
- The method of claim 1, wherein collecting network correlation data
 comprises collecting data for upstream and downstream physical network elements from the fault.
- 1 5. The method of claim 1, wherein collecting network correlation data 2 comprises collecting data from a root cause analysis.
- 1 6. The method of claim 1, wherein the physical connectivity test 2 comprises a Physical Loop Test.
- 1 7. The method of claim 6, wherein the Physical Loop Test is de-coupled 2 from a Plain Old Telephone Service (POTS) tool.
 - The method of claim 1, wherein the virtual connectivity test comprises an Operations And Maintenance (OAM) test.

- 1 9. The method of claim 8, further comprising initiating the OAM test
 2 with a service area identifier.
- 1 10. The method of claim 9, wherein the service area identifier comprises a 2 telephone number.
- 1 11. The method of claim 1, further comprising creating a repair ticket for 2 the fault.
- 1 12. The method of claim 1, further comprising dispatching a technician to 2 fix the fault.
 - 13. The method of claim 1, further comprising fixing the fault using the pre-defined resolution procedure.